

Serial No. 10/729,864
Wakefield, et al.
Filed December 5, 2003

Response to Office Action
Examiner: Angela M. Lie
Group Art Unit: 2163

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Commissioner for Patents
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Amendment and Claims Listing

Please amend the claims as follows:

Claim 1 (currently amended) 1. A computer program product located to one or more storage media devices usable to perform integration of free text with coded data, said computer program product comprising instructions executable by a computer to perform the functions of:

- accessing a database of data records containing both structured data and unstructured data, the unstructured data including at least some free text, the unstructured data, the unstructured data relating to the structured data of the data record in which the unstructured data is found; the structured data comprising a set of data tuples wherein is contained information according to a coded data format;
- ~~accessing a source of free text, the free text being relatable to the data tuples of the structured data;~~
- extracting multi-dimensional relational facts form said free text, said multi-dimensional relational facts including a plurality of attributes;

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identifying role relationships in said relational facts;
integrating said relational facts with said structured data; and
storing said integrated data on a computer-readable storage medium.
~~interpreting the free text to produce a set of construed data reflecting at least one relational fact~~
~~conveyed in the free text, each construed datum relating to a data tuple of the structured data;~~
~~and~~
~~— integrating the produced data with the data tuples of the structured data, said integrating~~
~~producing integrated data.~~

Claim 2 (cancelled)

Claim 3 (cancelled)

Claim 4 (currently amended) 4. A computer program product according to claim 1, wherein said instructions are further executable to perform the function of applying caseframes while performing said ~~interpreting the free text~~ extracting step.

Claim 5 (currently amended) 5. A computer program product according to claim 1, wherein said instructions are further executable to perform the function of producing a new database containing the integrated data ~~produced by said integrating~~.

Claim 6 (currently amended) 6. A computer program product according to claim 1, wherein said instructions are further executable to perform the function of inserting the produced data into the database of structured data and unstructured data while performing said integrating the produced data.

Claim 7 (cancelled) 7.

Claim 8 (cancelled)

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Claim 9 (currently amended) 9. A computer program product according to claim 7, wherein the instructions are further executable to produce a file containing the integrated data ~~produced by said integrating.~~

Claim 10 (original) 10. A computer program product according to claim 9, wherein the instructions are further executable to produce a file having a format selected from the group of XML, character separated values, spreadsheet formats and file-based database structures.

Claim 11 (original) 11. A computer system including a computer program product according to claim 1, further comprising: a processing unit coupled to said one or more storage media devices, said processing unit being capable of executing said instructions; and an execution command unit, whereby operation of said instructions and said processing unit may be commanded or controlled.

Claim 12 (currently amended) 12. A computer program product according to claim 1, wherein said instructions are further executable to store integrated data to an integrated data database ~~while performing said integrating the produced data.~~

Claim 13 (cancelled)

Claim 14 (original) 14. A computer program product according to claim 1, wherein said instructions are further executable to perform data mining on the integrated data.

Claim 15 (original) 15. A computer program product according to claim 1, wherein said instructions are further executable to render a visual representation all or a part of the integrated data.

Claim 16 (cancelled)

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Claim 17 (cancelled)

Claim 18 (cancelled)

Claim 19 (cancelled)

Claim 20 (cancelled)

Claim 21 (cancelled)

Claim 22 (cancelled)

Claim 23 (cancelled)

Claim 24 (cancelled)

Claim 25 (cancelled)

Claim 26 (cancelled)

Claim 27 (cancelled)

Claim 28 (cancelled)

Claim 29 (cancelled)

Claim 30 (new). 30. A method for creating an integrated data product comprising the steps of:

accessing a database of data records containing coded structured data and unstructured data, the unstructured data including at least some free text, the unstructured data, the unstructured data relating to the structured data of the data record in which the unstructured data is found;

extracting multi-dimensional relational facts from said free text, said multi-dimensional relational facts including a plurality of attributes;

said extracting step including applying caseframes to said free text;

identifying role relationships in said relational facts;

integrating said relational facts with said structured data; and


storing said integrated data on a computer-readable storage medium.

Claim 31 (new). 31. A method as recited in claim 30 further comprising the step of using said integrated data to perform data analytics.

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